

1310nm Transparent Optical Cable for IDC Data Centers



Overview

Operating at a wavelength of 1310nm, this high-performance module supports transmission up to 40 kilometers and is fully compliant with SFP+ MSA and IEEE 802. It is ideal for 10 Gigabit Ethernet, SONET/SDH, and data center interconnects, featuring Digital. A 1310nm optical module lets you move data efficiently through fiber optic communication networks. As part of the O-band (1260–1360 nm), it balances low dispersion, stable performance, and cost efficiency. This makes it widely adopted in data centers, enterprise backbones, and metro access. Among the most commonly used fiber types are single-mode fiber (SMF) and multimode fiber (MMF), often paired with 1310nm SFP modules for high-speed data transmission. In this guide, we will explore the distinctions between 1300nm and 1310nm transceivers, examine the characteristics of SMF and MMF. Upgrade networks with our optical transceiver sfp+ 10g single mode module 1310nm 10km lc. This LC transceiver delivers effortless 10km connectivity for data centers and servers. SPEED REDEFINED: 10 Gigabit Performance for Modern Networks Subheading Focus: Bandwidth & Low Latency Speed defines. OPTRAL manufactures and designs cables for installation in data centers, allowing most common connectors to be assembled easily.



Article Content

Nov 07, 2025

Cisco CWDM-SFP-1310 1000BASE-CWDM SFP (mini

Cisco CWDM-SFP-1310 Compatible SFP 1000BASE-CWDM 1310nm 80km DOM Duplex LC/UPC SMF Optical Transceiver Module for Transmission

Oct 15, 2025

SFP Wavelength Guide: 850nm vs. 1310nm vs. 1550nm

Authoritative SFP wavelength guide: compare 850nm, 1310nm, 1550nm applications, link-budget implications, multimode vs single-mode

Jan 02, 2026

1310nm Single Mode Fiber Optical Transceivers Explained

Optical Module vs. Fiber Cable: A Common Point of Confusion It's important to distinguish between the optical transceivers and the fiber itself: The 1310nm optical module defines the wavelength, data rate,

Jun 14, 2026

Understanding 1310nm Fiber: A Comprehensive Guide

Explore the complexities of 1310nm fiber wavelengths in this comprehensive guide. Learn about fiber optics, optical transmission, and more.

Jan 03, 2026

1.25G 20km Single Mode SFP Transceiver (LX, 1310nm, LC)

Data Sheet | NS.SF-0001-ST The NS.SF-0001-ST is a high-performance, hot-swappable SFP transceiver designed to seamlessly work with Alti access points and switches. Powered by a high

Mar 13, 2026

100GbE QSFP28 PSM4 Optical Transceiver

Mellanox® MMS1C10-CM transceiver is a parallel, single mode, 1310nm, 4-channel (PSM4), pluggable, QSFP28 optical transceiver designed for use in 100GbE Ethernet applications. It is also qualified for

Jun 09, 2026

1310NM LASER DIODES

Fiber Optical Communications Diode lasers operating at the 1310nm wavelength are most commonly used in the telecommunications industry. Data is sent back and forth in rays of light, typically through

Jul 28, 2025

Active Optical Cables (AOC) | High-Speed Connectors

Active Optical Cables (AOC) Explore Amphenol's high-speed Active Optical Cables designed for data centers, HPC, telecom, and storage systems

Apr 08, 2026

Axiom 10GB-F20-SFPP-AX 10GBASE-ER SFP+ Transceiver (20km,

This transceiver is perfect for inter-building links, metro access, Active Optical Cable data center interconnects, and enterprise backbones where long-range fiber transmission is required.

Nov 06, 2025

Data Center Transceivers & Cables

Arista's transceivers and cables offer customers a wide variety of connectivity options over copper or fiber for data center and HPC environments.

Feb 12, 2026

optical transceiver sfp+ 10g single mode module 1310nm 10km lc

Upgrade networks with our optical transceiver sfp+ 10g single mode module 1310nm 10km lc. This LC transceiver delivers effortless 10km connectivity for data centers and servers.

Jan 01, 2026

10G SFP+ ER 1310nm 40KM

Operating at a wavelength of 1310nm, this high-performance module supports transmission up to 40 kilometers and is fully compliant with SFP+ MSA and IEEE 802.3ae standards.

Jul 09, 2025

Technical Characteristics Of 10G Optical Modules With

There are three wavelength windows for 10G optical module communication applications, namely the 850nm window, 1310nm window, and

Apr 03, 2026

Everything You Need to Know About 1310nm Optical

1310nm optical modules are essential for efficient data transmission in fiber optic networks, especially for medium distances. These modules offer low

Sep 01, 2025

What is the difference between SFP 1310nm and 850nm□

In summary, 850nm SFP modules are an excellent choice for short-range, high-speed, and cost-effective optical communication, particularly in data center and enterprise networking environments.

Jan 24, 2026

Optical SFP Transceiver Module

Description The SFP transceivers are high performance, cost effective modules supporting data-rate of 1.25Gbps and 20km transmission distance with SMF. The

Jan 21, 2026

OSP155-312xxR 155Mbps SFP MMF 1310nm 2km Transceiver Data

Description Optcore's OSP155-312xxR is a high performance small form factor pluggable (SFP) transceiver module for duplex optical data communications such as 100BASE-FX Fast Ethernet,

Apr 02, 2026

Fiber Optic Cable Solutions for Data Centers | OPTRAL

Our solutions are engineered to deliver maximum fiber density, superior flexibility, and the smallest possible cable diameter, ideal for current high-capacity

Oct 06, 2025

Single-Mode vs Multimode Fiber and 1300nm/1310nm SFP

Learn the differences between single-mode (SMF) and multimode fiber (MMF), understand 1300nm vs 1310nm SFP transceivers, and discover practical deployment scenarios for enterprise and data

Contact Us

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